Fig. 1

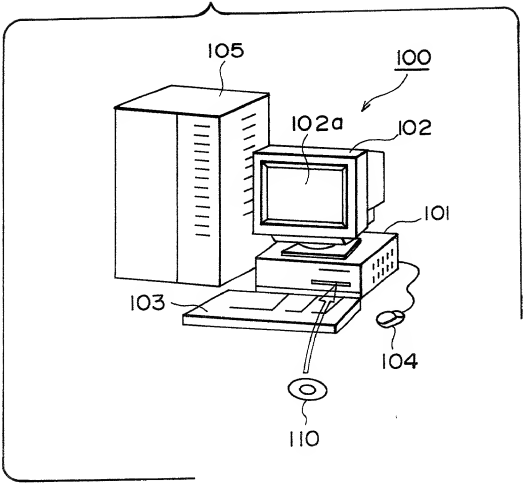

Fig. 2

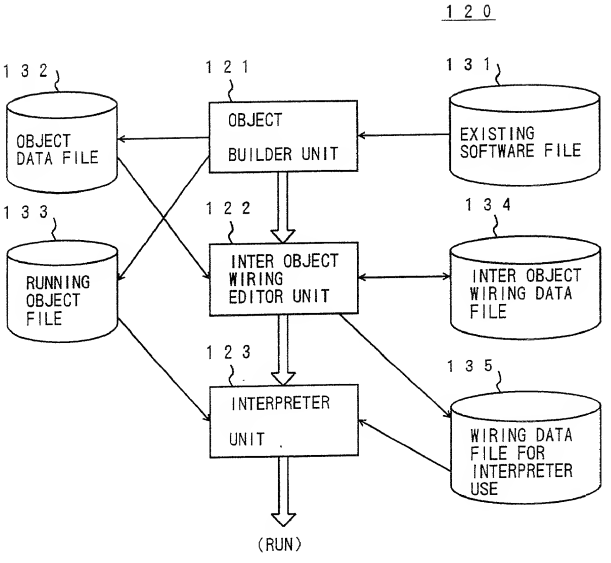

Fig. 3

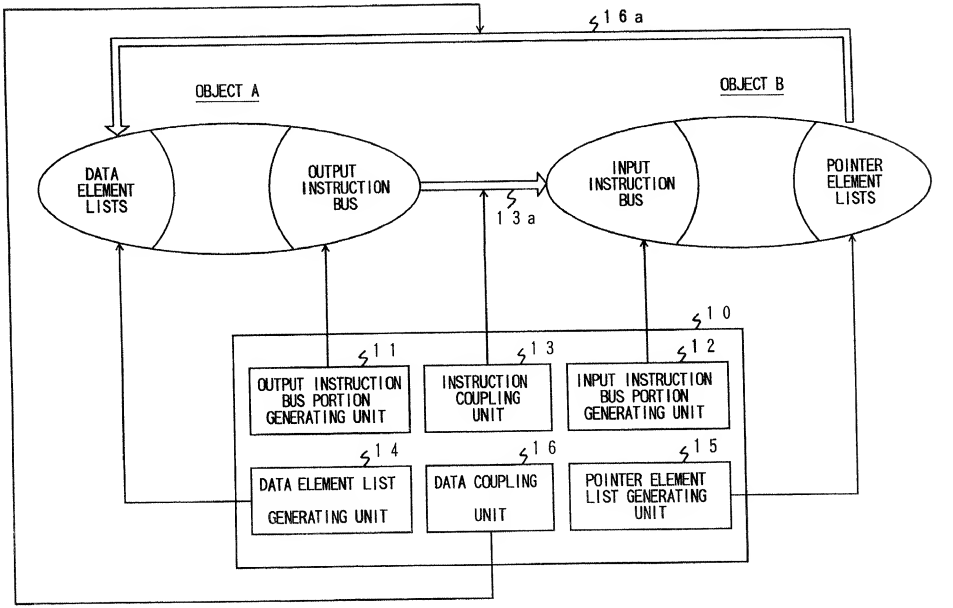

Fig. 4

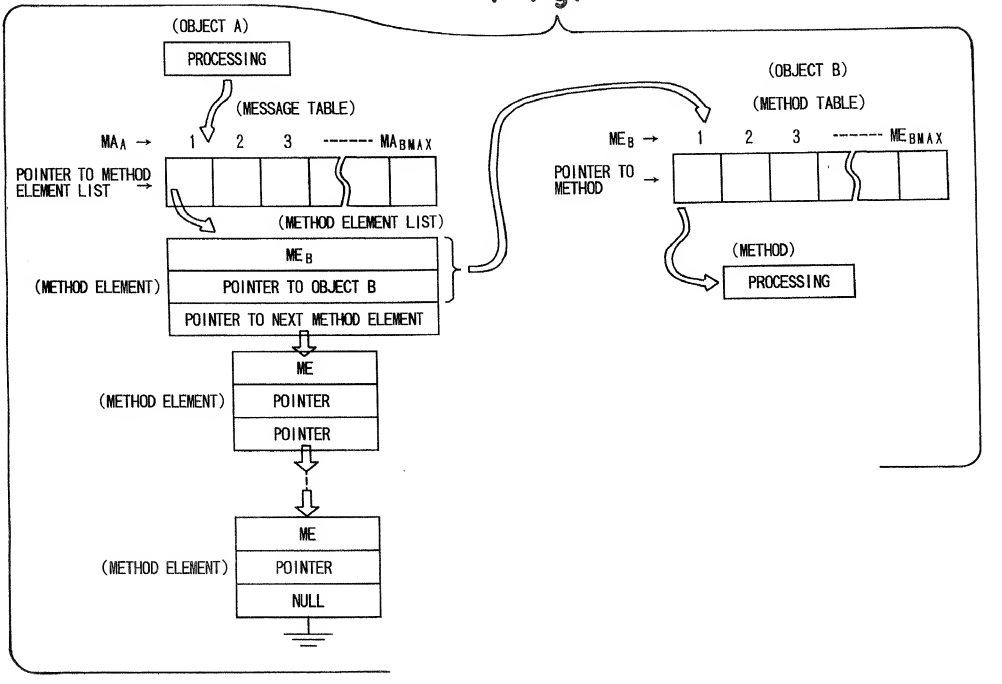

Fig. 5

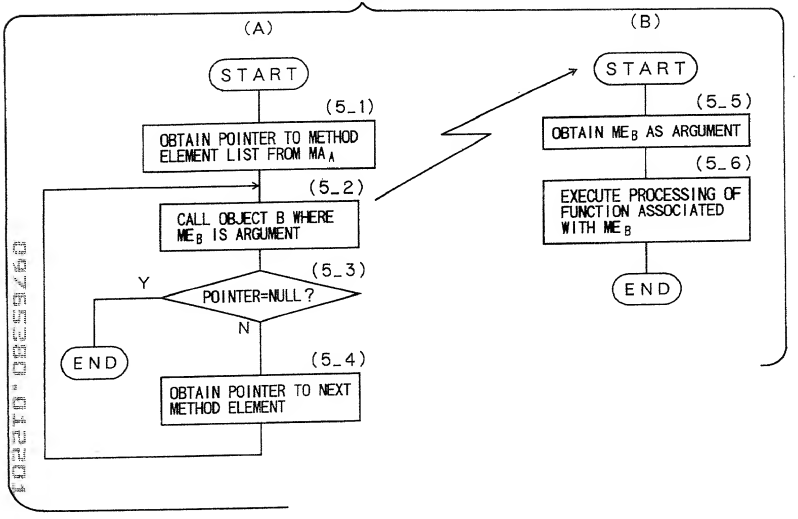
(A)
START
(5_1)
OBTAIN POINTER TO METHOD ELEMENT LIST FROM MA_A
(5_2)
CALL OBJECT B WHERE ME_B IS ARGUMENT
(5_3)
POINTER=NULL?
Y
N
END
(5_4)
OBTAIN POINTER TO NEXT METHOD ELEMENT
(B)
START
(5_5)
OBTAIN ME_B AS ARGUMENT
(5_6)
EXECUTE PROCESSING OF FUNCTION ASSOCIATED WITH ME_B
END

Fig. 6

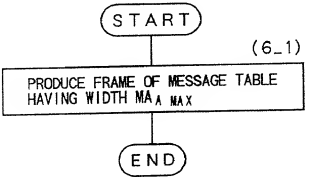
START
(6_1)
PRODUCE FRAME OF MESSAGE TABLE HAVING WIDTH MA_A MAX
END

Fig. 7

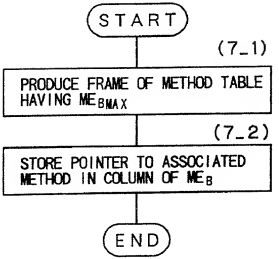

Fig. 8

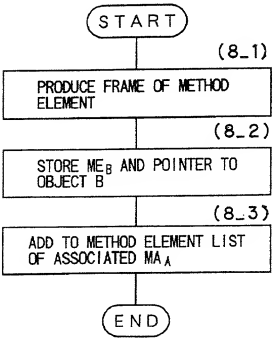

Fig. 9

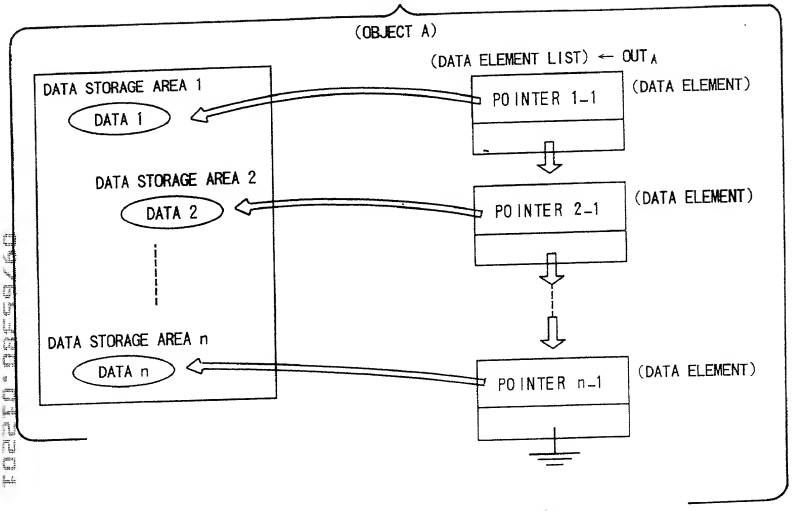
(OBJECT A)
(DATA ELEMENT LIST) ← OUT A
DATA STORAGE AREA 1
DATA 1
POINTER 1-1
(DATA ELEMENT)
DATA STORAGE AREA 2
DATA 2
POINTER 2-1
(DATA ELEMENT)
DATA STORAGE AREA n
DATA n
POINTER n-1
(DATA ELEMENT)

Fig. 10

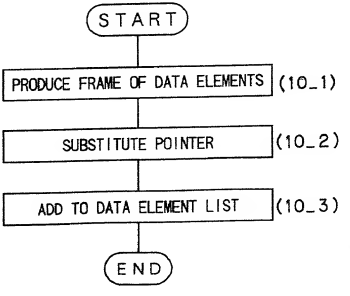
START
PRODUCE FRAME OF DATA ELEMENTS
(10_1)
SUBSTITUTE POINTER
(10_2)
ADD TO DATA ELEMENT LIST
(10_3)
END

Fig. 11

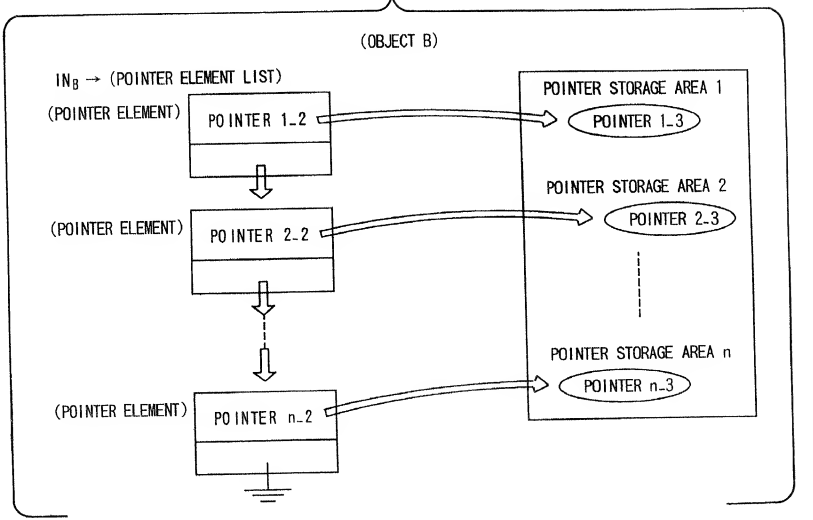

Fig. 12

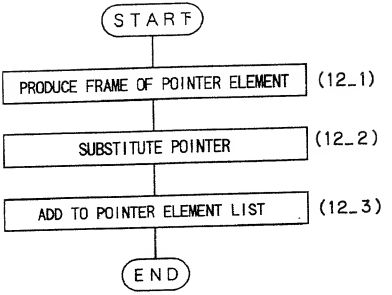
START
PRODUCE FRAME OF POINTER ELEMENT
(12_1)
SUBSTITUTE POINTER
(12_2)
ADD TO POINTER ELEMENT LIST
(12_3)
END

Fig. 13

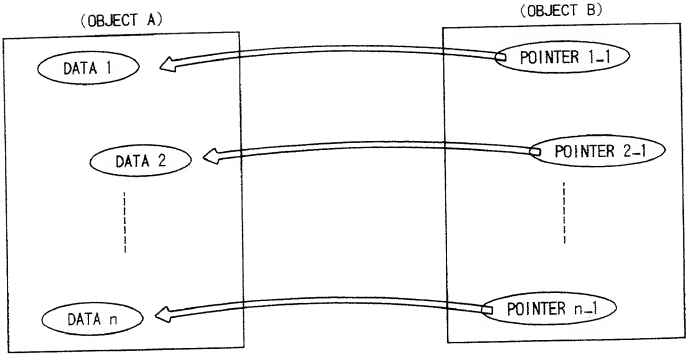
(OBJECT A)
(OBJECT B)
DATA 1
POINTER 1_1
DATA 2
POINTER 2_1
DATA n
POINTER n_1

Fig. 14

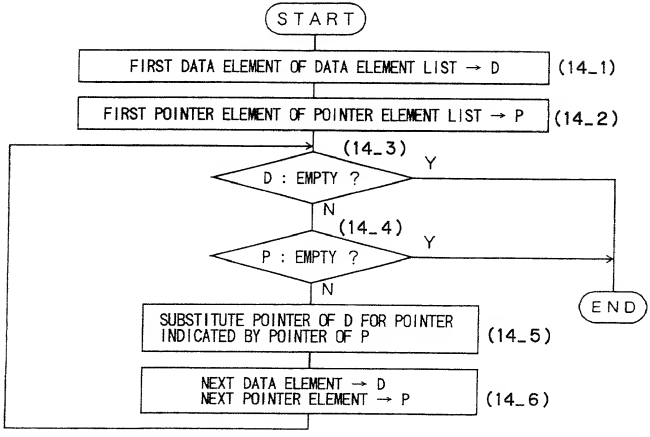

Fig. 15

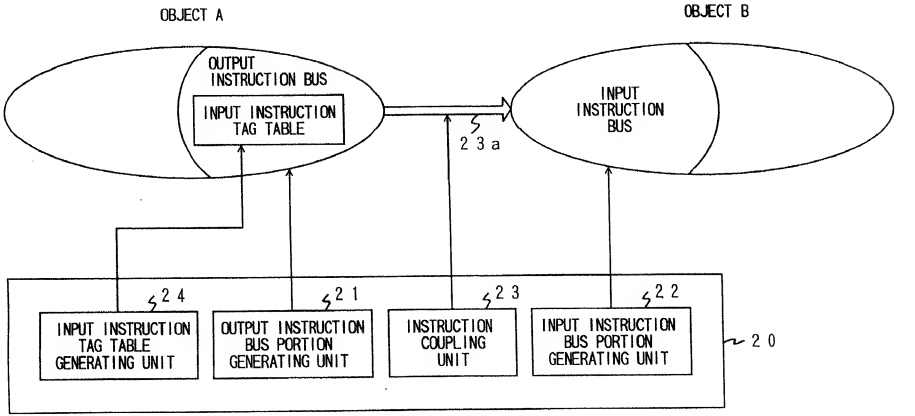

Fig. 16

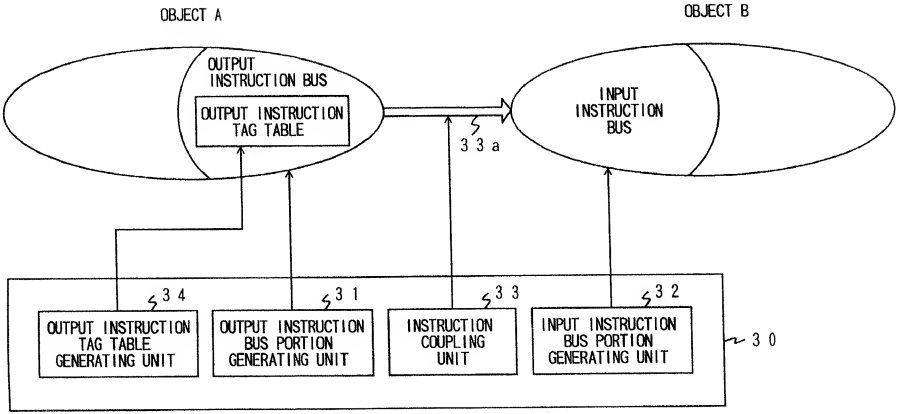

Fig. 17

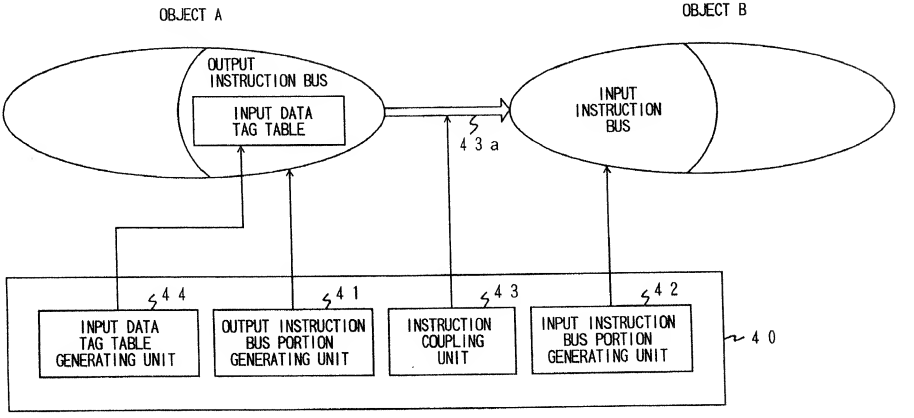

Fig. 18

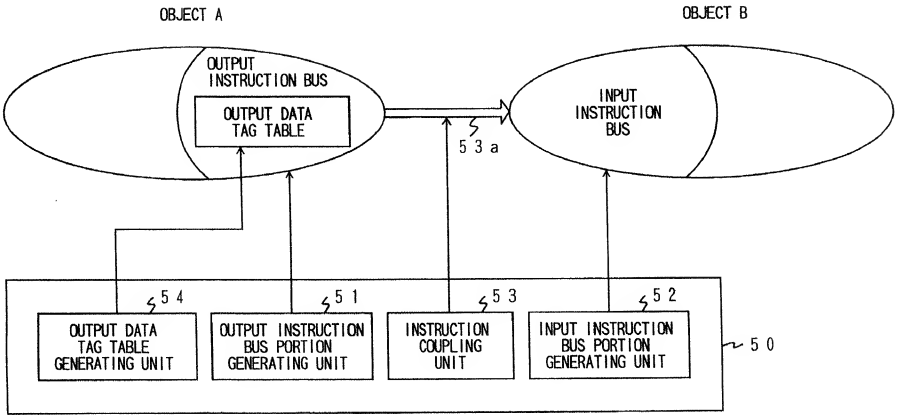

Fig. 19

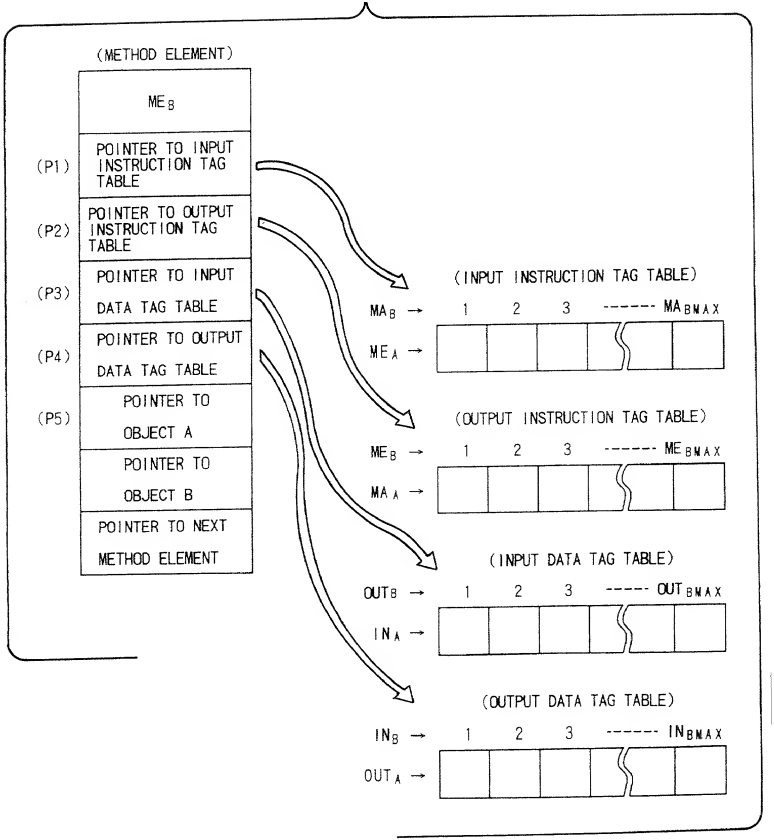

Fig. 20

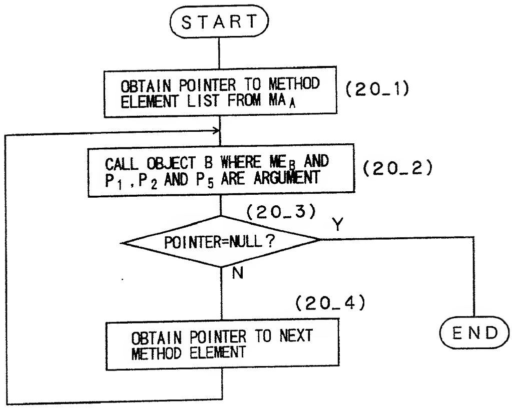
START
OBTAIN POINTER TO METHOD ELEMENT LIST FROM MA A
(20_1)
CALL OBJECT B WHERE ME B AND P 1 , P 2 AND P 5 ARE ARGUMENT
(20_2)
(20_3)
POINTER=NULL ?
Y
N
(20_4)
OBTAIN POINTER TO NEXT METHOD ELEMENT
END

Fig. 21

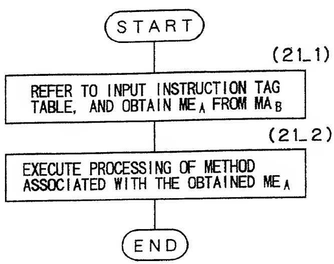
START
(21_1)
REFER TO INPUT INSTRUCTION TAG TABLE, AND OBTAIN ME A FROM MA B
(21_2)
EXECUTE PROCESSING OF METHOD ASSOCIATED WITH THE OBTAINED ME A
END

Fig.22

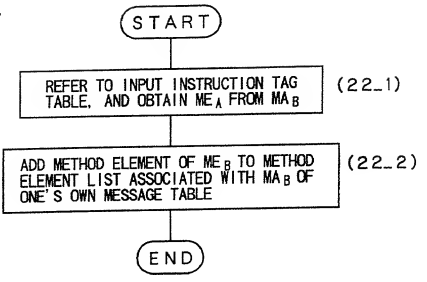

Fig.23

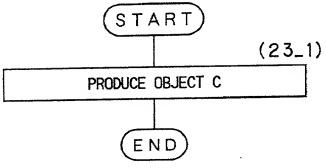

Fig.24

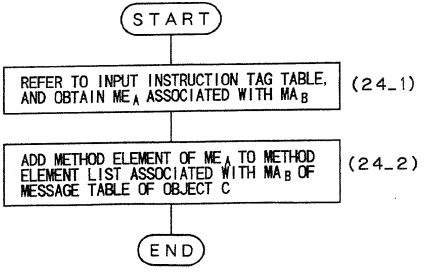

Fig. 25

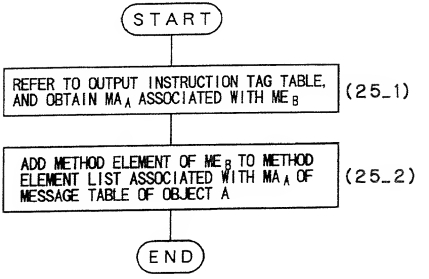

Fig. 26

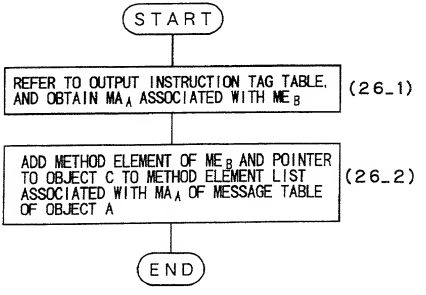

Fig. 27

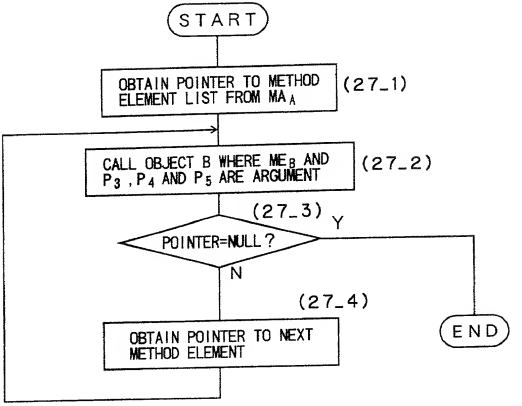

Fig. 28

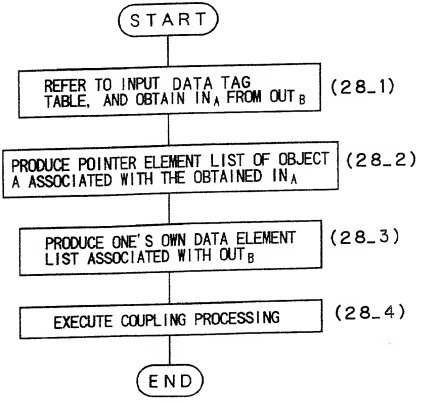

Fig. 29

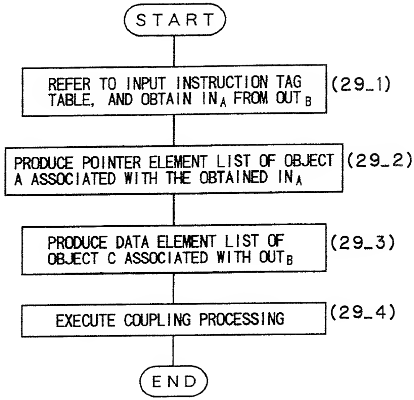
START
REFER TO INPUT INSTRUCTION TAG TABLE, AND OBTAIN IN_A FROM OUT_B
(29_1)
PRODUCE POINTER ELEMENT LIST OF OBJECT A ASSOCIATED WITH THE OBTAINED IN_A
(29_2)
PRODUCE DATA ELEMENT LIST OF OBJECT C ASSOCIATED WITH OUT_B
(29_3)
EXECUTE COUPLING PROCESSING
(29_4)
END

Fig. 30

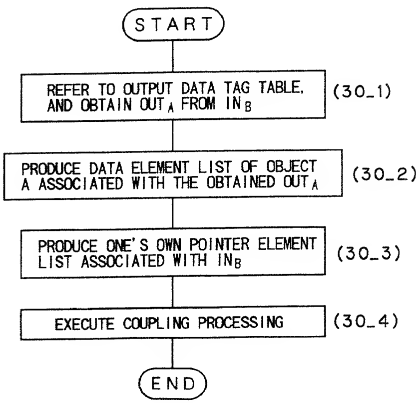
START
REFER TO OUTPUT DATA TAG TABLE, AND OBTAIN OUT_A FROM IN_B
(30_1)
PRODUCE DATA ELEMENT LIST OF OBJECT A ASSOCIATED WITH THE OBTAINED OUT_A
(30_2)
PRODUCE ONE'S OWN POINTER ELEMENT LIST ASSOCIATED WITH IN_B
(30_3)
EXECUTE COUPLING PROCESSING
(30_4)
END

Fig. 31

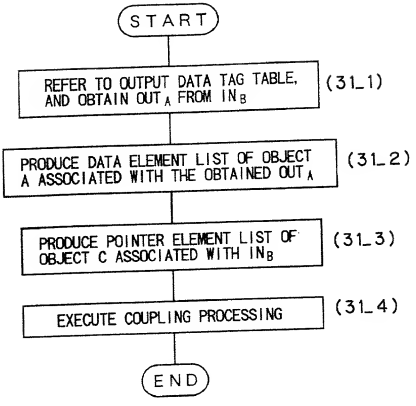

Fig. 32

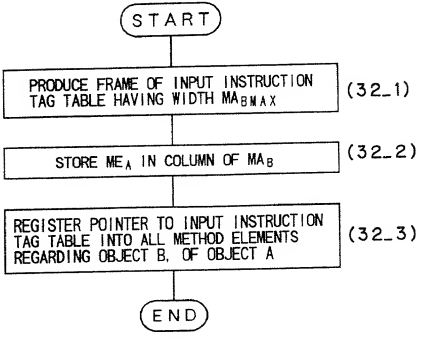

Fig. 33

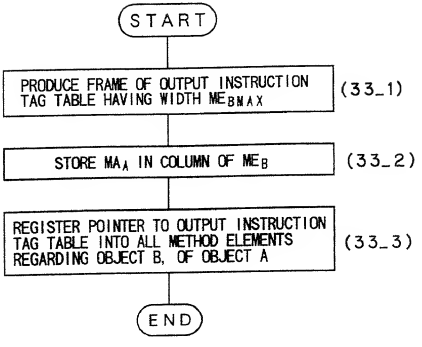

Fig. 34

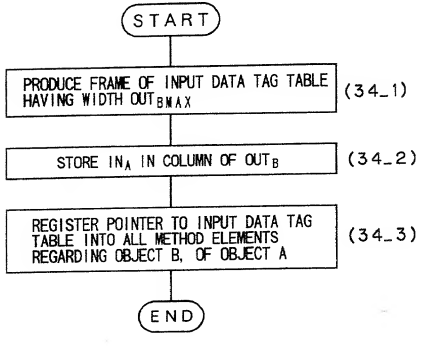

Fig. 35

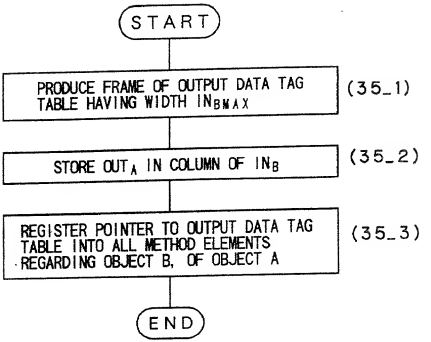

Fig. 36

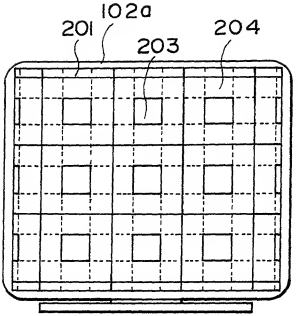

Fig. 37

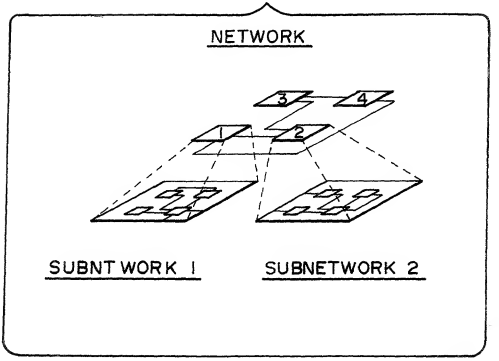

Fig.38(A)

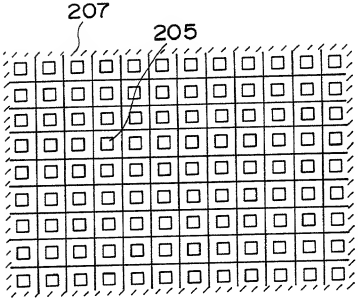

Fig.38(B)

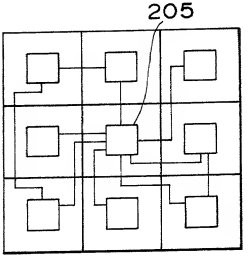

Fig.39(A)

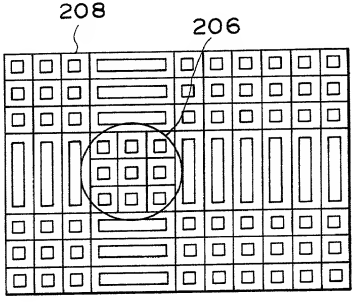

Fig.39(B)

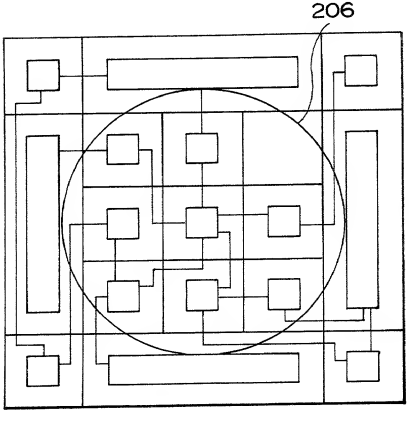

Fig.40(A)

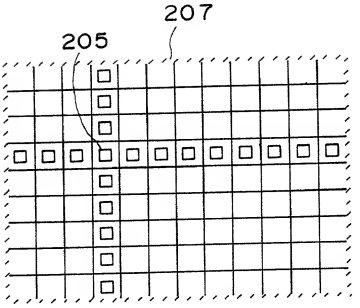

Fig.40(B)

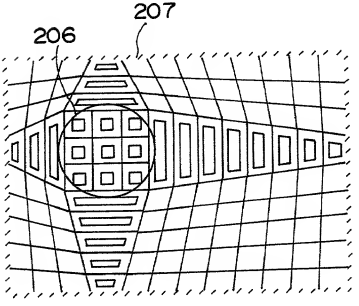

Fig. 41(A)

Fig. 41(B)

Fig. 41(C)

Fig. 42

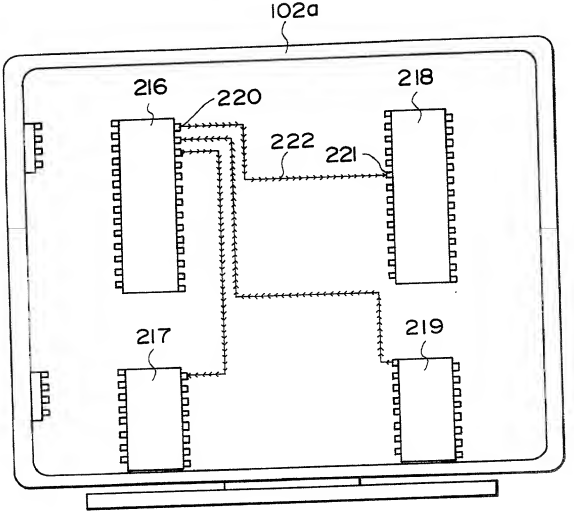

Fig. 43(A)

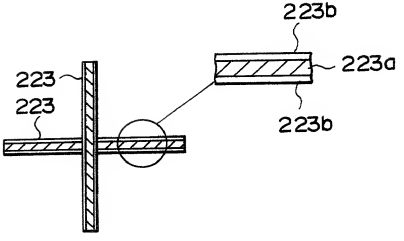

Fig. 43(B)

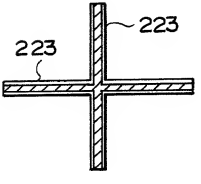

Fig.44(A)

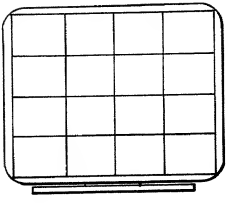

Fig.44(B)

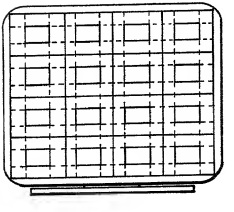

Fig.44(C)

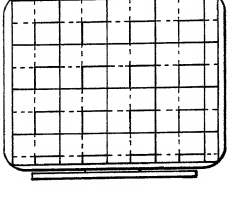

Fig.45

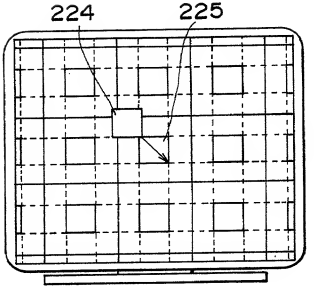

Fig.46(A)

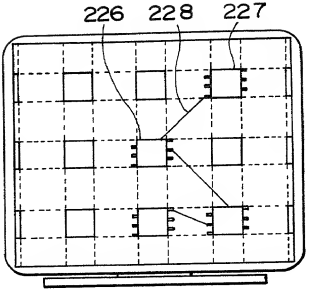

Fig.46(B)

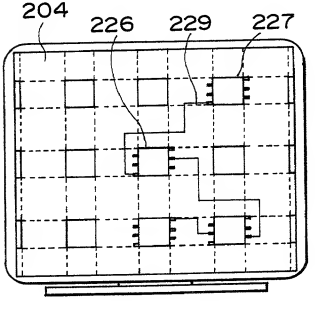

Fig. 47 (A)

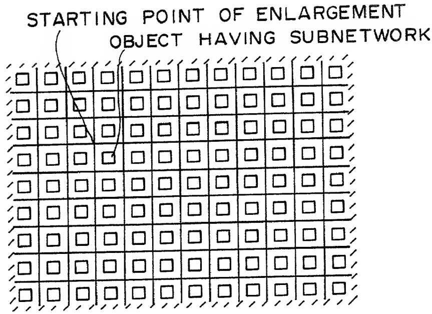

Fig. 47 (B)

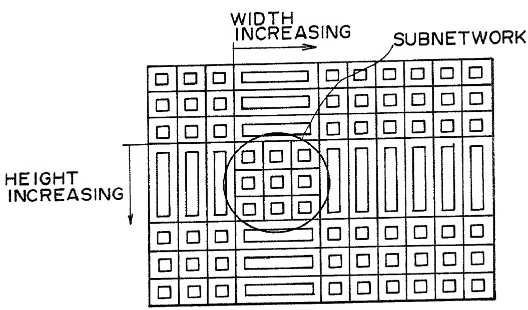

Fig. 48

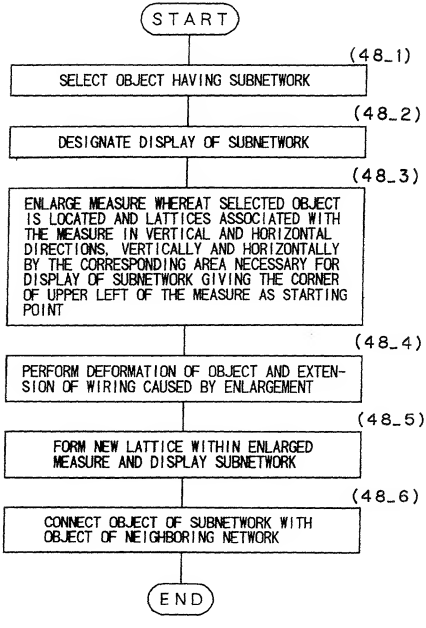

Fig.49(A)

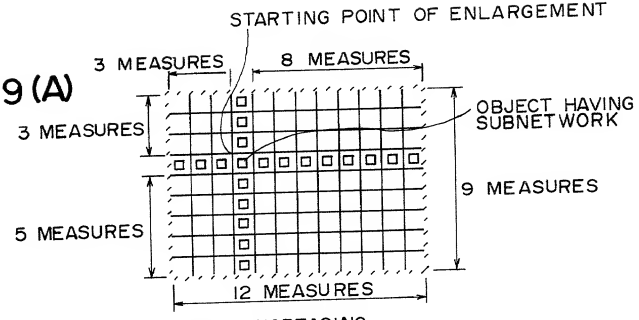

Fig.49(B)

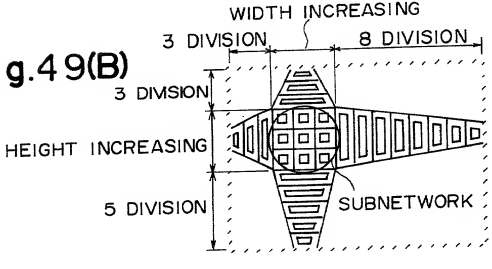

Fig.49(C)

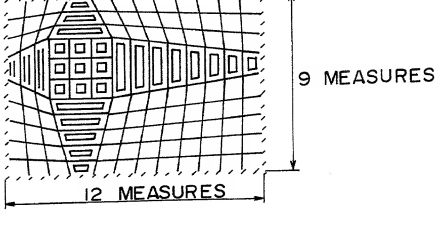

Fig.50

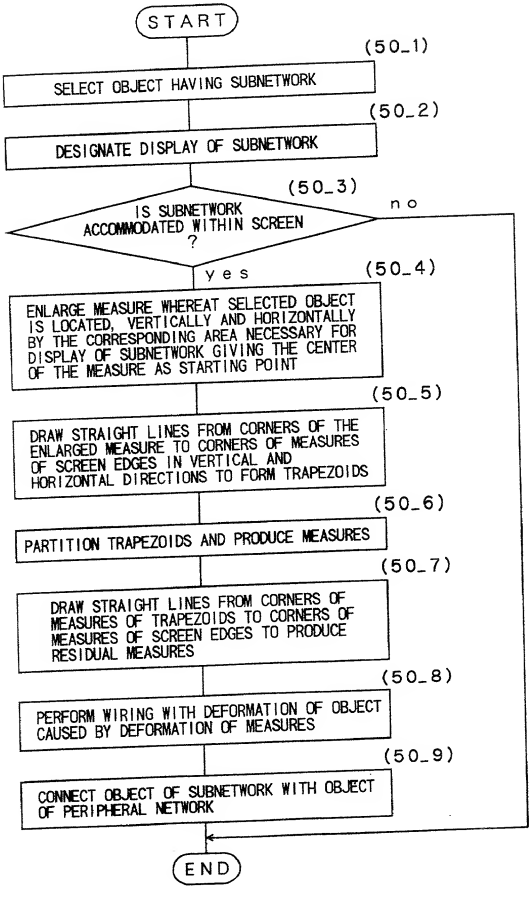

Fig.51(A)

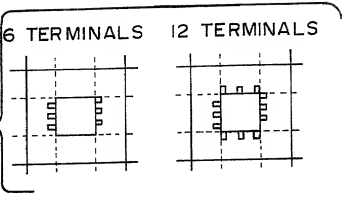

Fig.51(B)

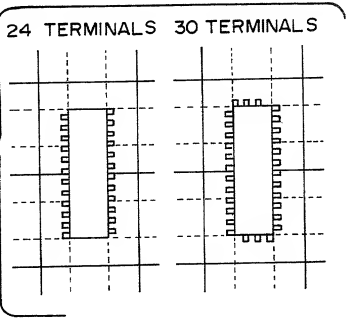

Fig.51(C)

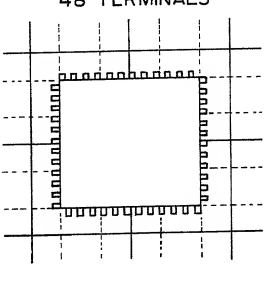

Fig.52(A)

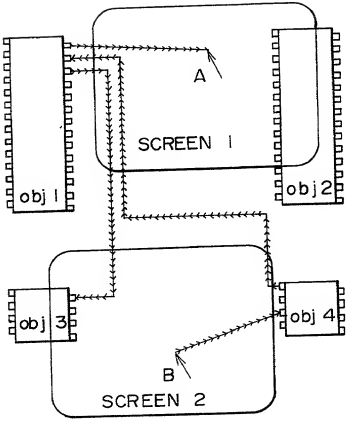

Fig.52(B)

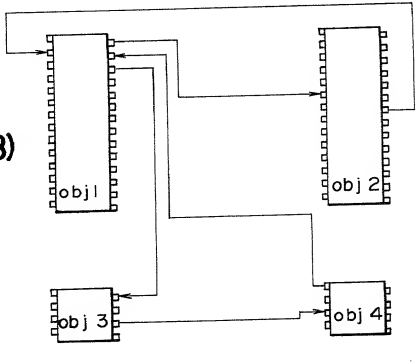

Fig.53

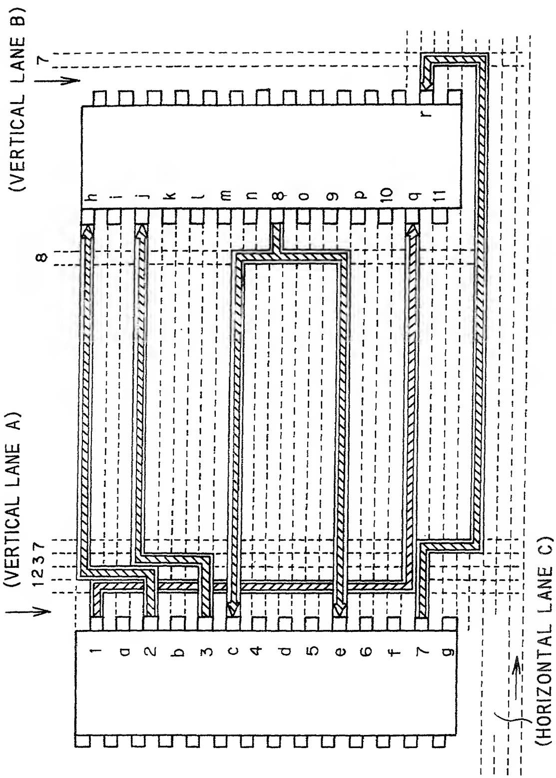
(VERTICAL LANE A)
1237
(VERTICAL LANE B)
7
8
(HORIZONTAL LANE C)
1
a
2
b
3
c
4
d
5
e
6
f
7
g
h
i
j
k
l
m
n
8
o
9
p
10
q
11
r

Fig. 54

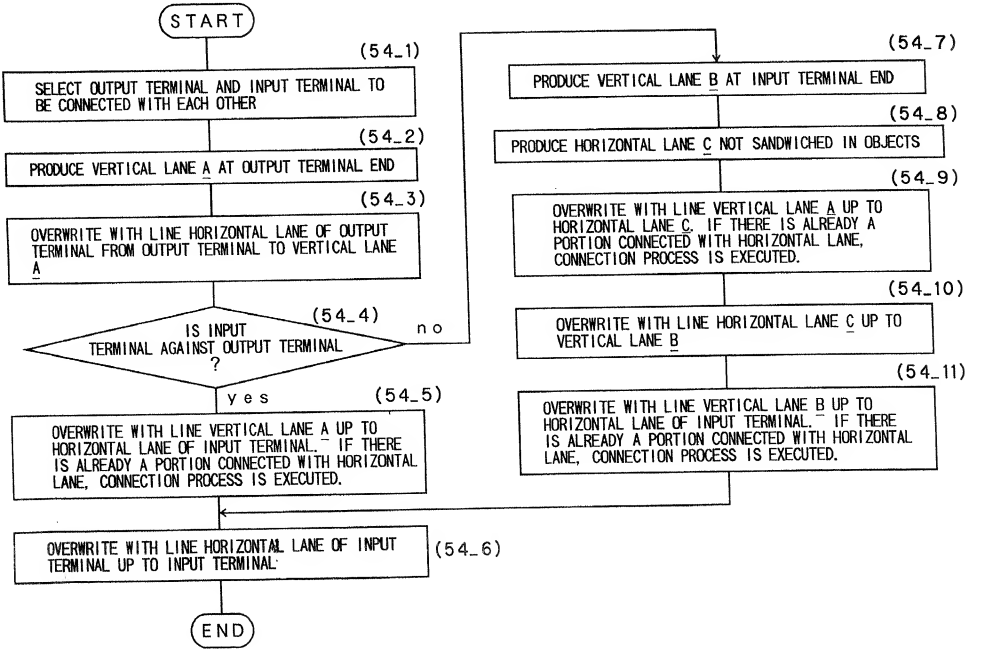

Fig.55

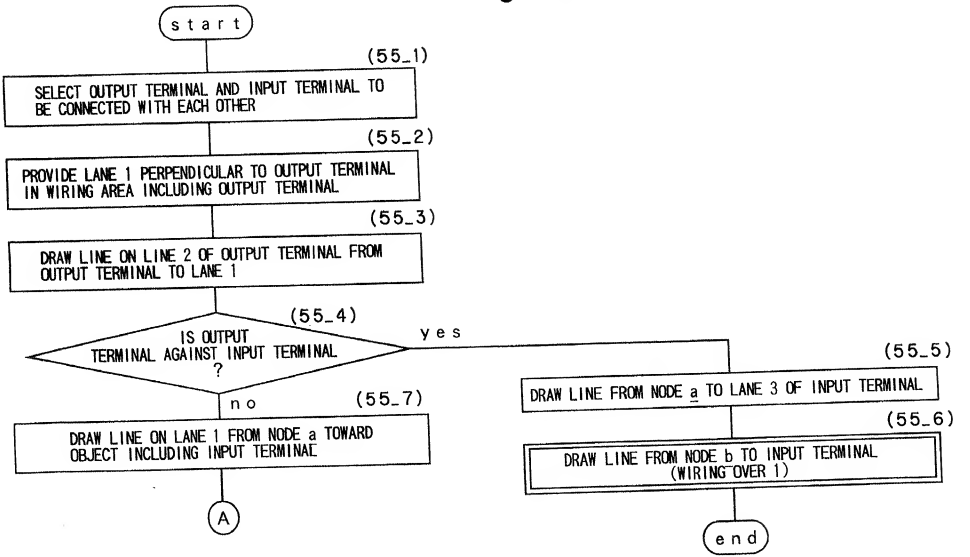

Fig.56

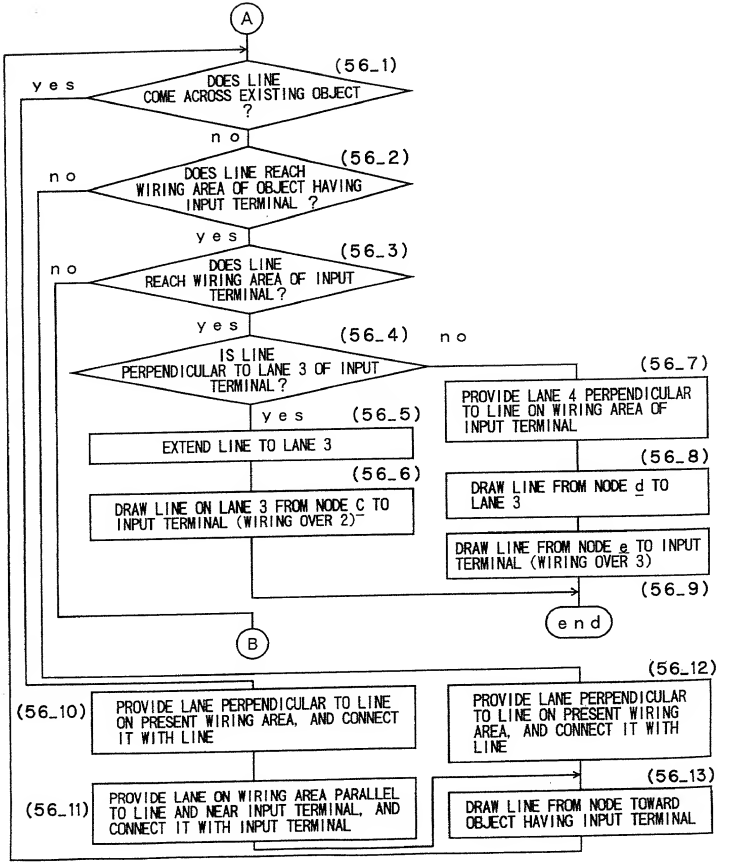

Fig. 5.7

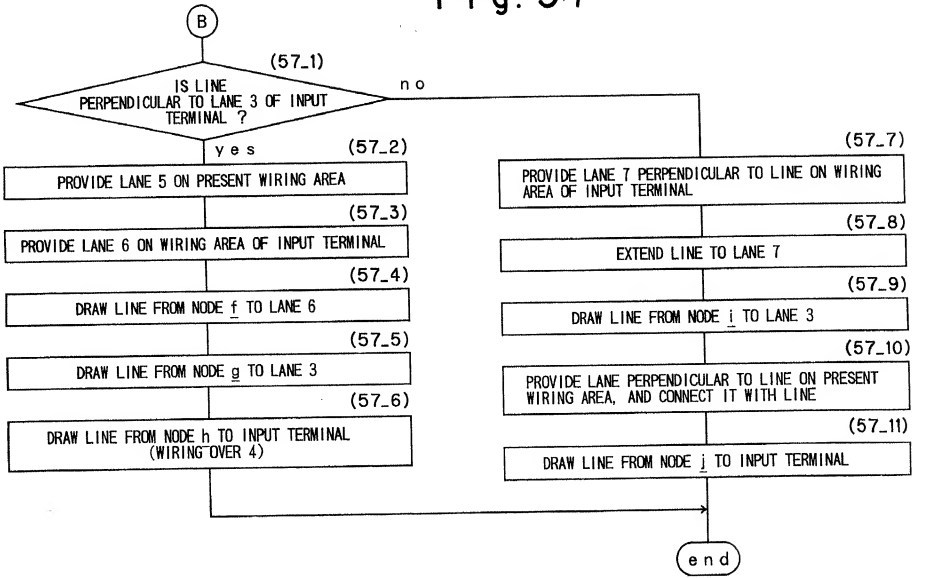

Fig. 58

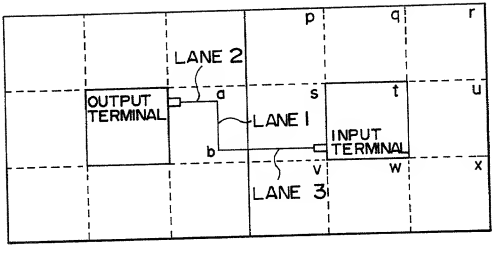
p
q
r
LANE 2
OUTPUT TERMINAL
a
s
t
u
LANE 1
INPUT TERMINAL
b
v
w
x
LANE 3

Fig. 59

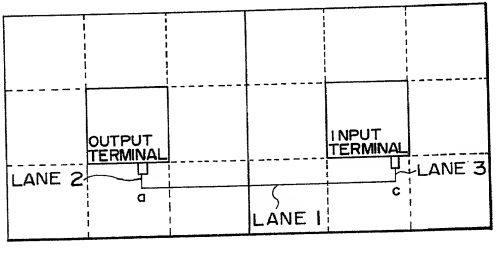
OUTPUT TERMINAL
INPUT TERMINAL
LANE 2
LANE 3
a
c
LANE 1

Fig. 60

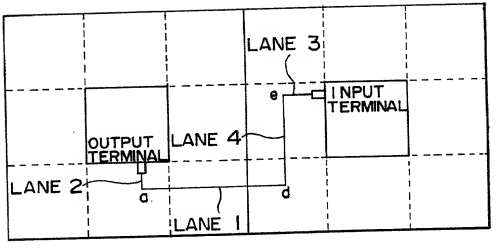

Fig. 61

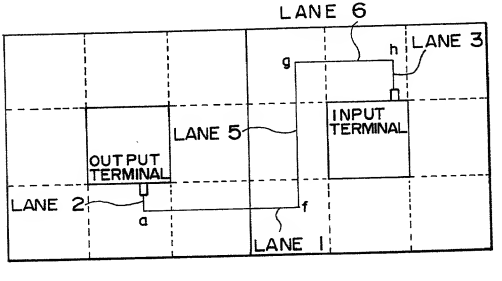

Fig. 62

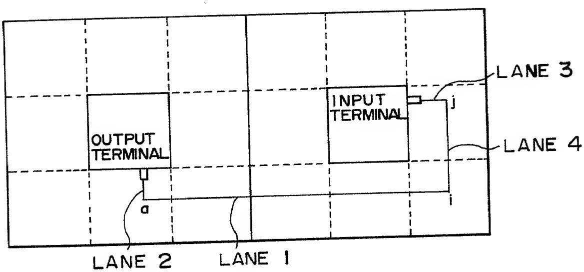
INPUT
TERMINAL
OUTPUT
TERMINAL
LANE 3
LANE 4
j
i
a
LANE 2
LANE 1

Fig.63(A)

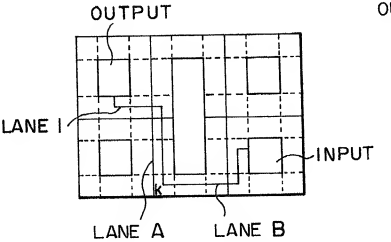

Fig.63(B)

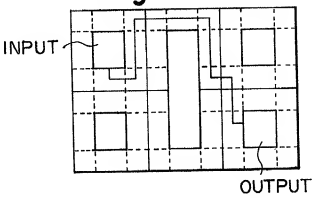

Fig.63(C)

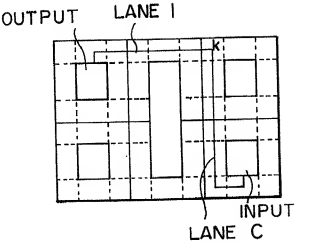

Fig.63(D)

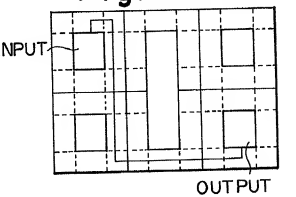

Fig. 64

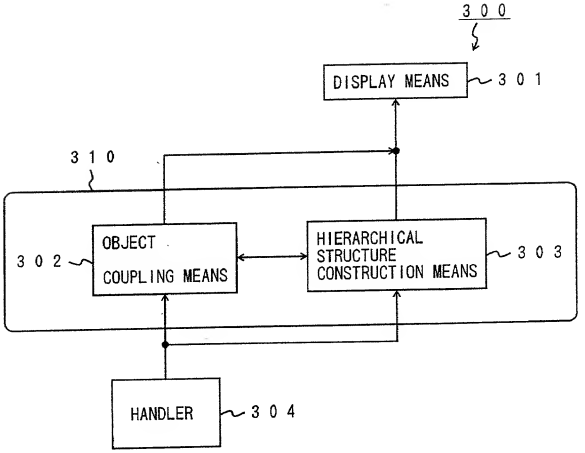
300
DISPLAY MEANS
301
310
302
OBJECT
COUPLING MEANS
HIERARCHICAL
STRUCTURE
CONSTRUCTION MEANS
303
HANDLER
304

Fig.65

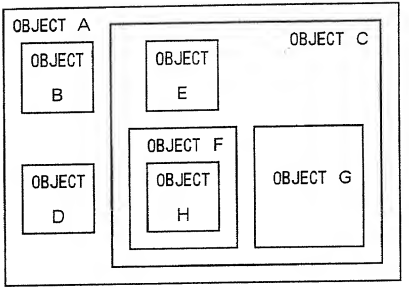

Fig.66

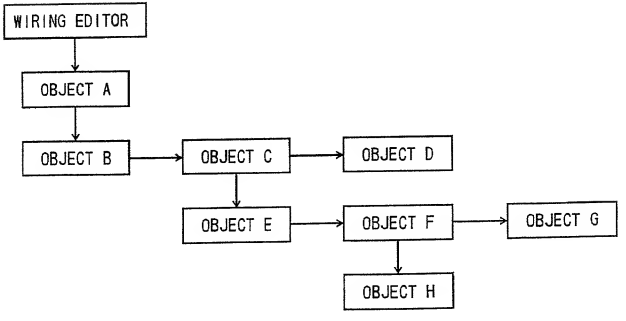

Fig.67

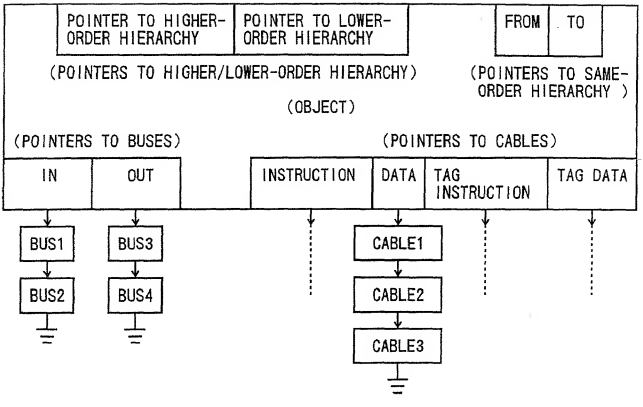

Fig.68

(BUS)

POINTER TO SUBSTANTIAL OBJECT
POINTER TO BUS OF SUBSTANTIAL OBJECT
POINTER TO NEXT BUS
OTHER DATA

Fig. 69

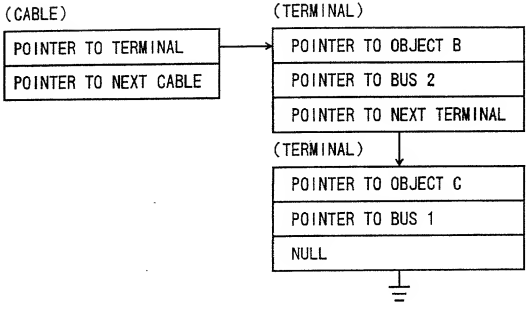
(CABLE)
POINTER TO TERMINAL
POINTER TO NEXT CABLE
(TERMINAL)
POINTER TO OBJECT B
POINTER TO BUS 2
POINTER TO NEXT TERMINAL
(TERMINAL)
POINTER TO OBJECT C
POINTER TO BUS 1
NULL

Fig. 70

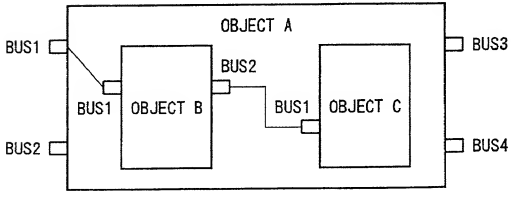
OBJECT A
BUS1
BUS2
BUS3
BUS4
BUS1
OBJECT B
BUS2
BUS1
OBJECT C

Fig. 71

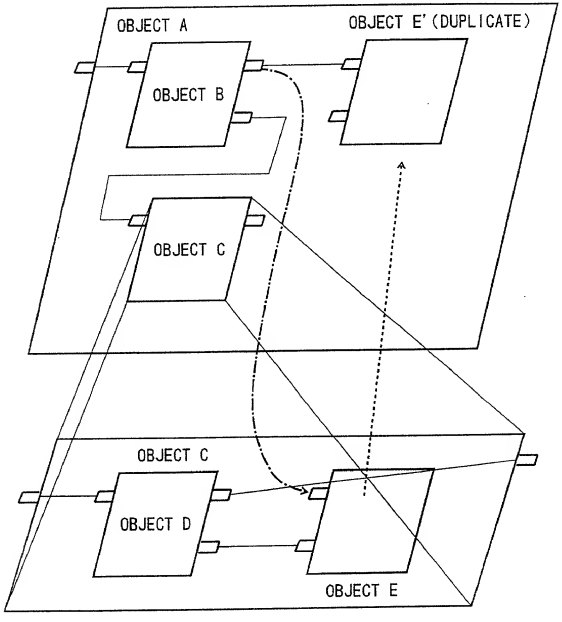

Fig. 72

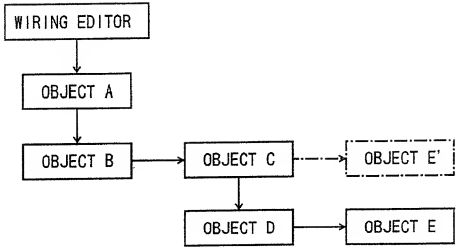
WIRING EDITOR
OBJECT A
OBJECT B
OBJECT C
OBJECT E'
OBJECT D
OBJECT E

Fig. 73

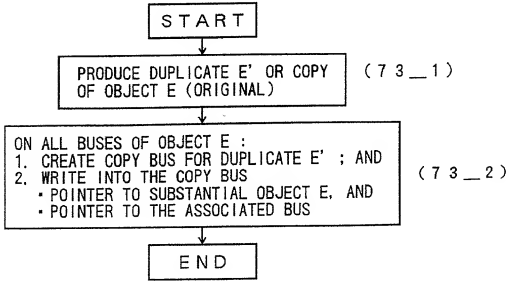
START
PRODUCE DUPLICATE E' OR COPY OF OBJECT E (ORIGINAL)
(73_1)
ON ALL BUSES OF OBJECT E :
1. CREATE COPY BUS FOR DUPLICATE E' ; AND
2. WRITE INTO THE COPY BUS
• POINTER TO SUBSTANTIAL OBJECT E, AND
• POINTER TO THE ASSOCIATED BUS
(73_2)
END

Fig. 74

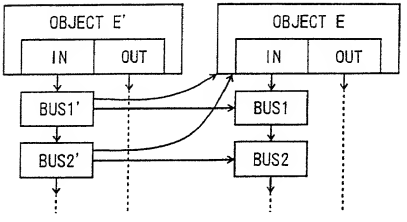

Fig. 75

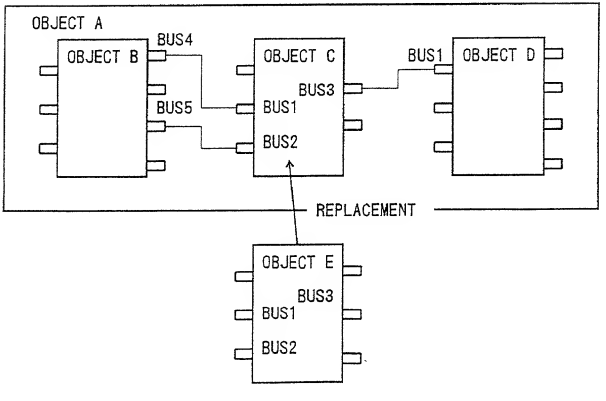

Fig. 76

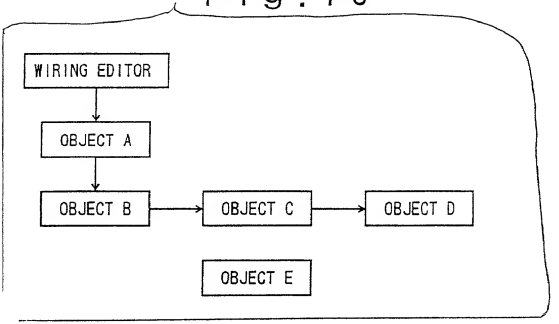
WIRING EDITOR
OBJECT A
OBJECT B
OBJECT C
OBJECT D
OBJECT E

Fig. 77

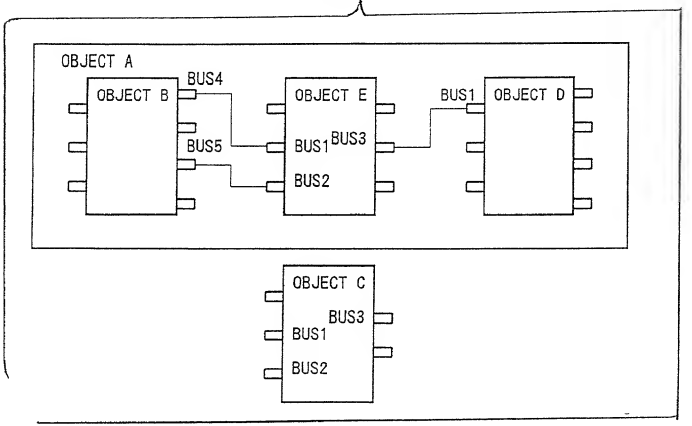
OBJECT A
OBJECT B
BUS4
BUS5
OBJECT E
BUS1
BUS3
BUS2
BUS1
OBJECT D
OBJECT C
BUS3
BUS1
BUS2

Fig.78

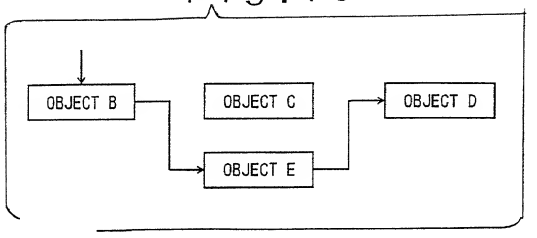

Fig.79

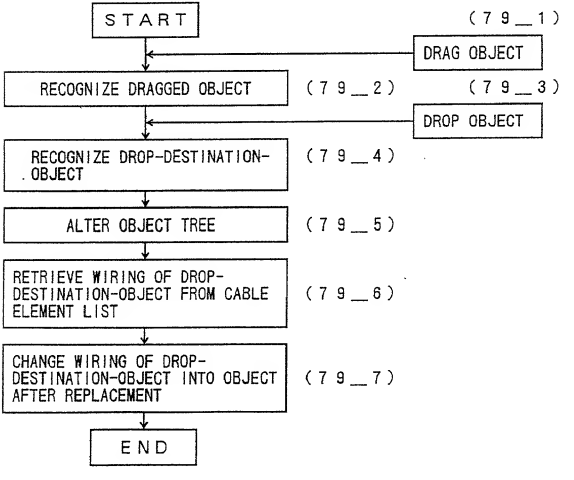

Fig. 80

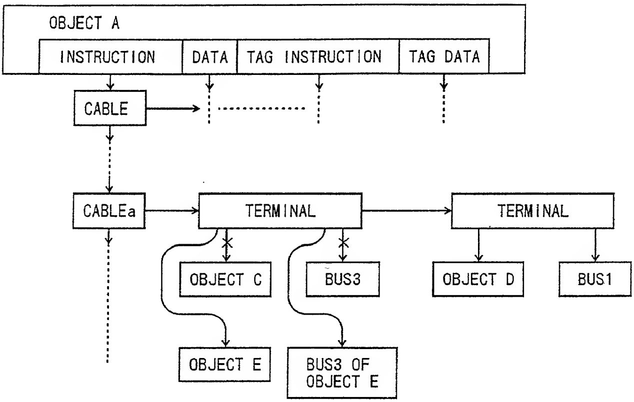

Fig.81

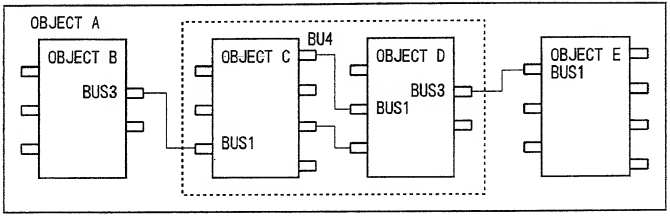

Fig.82

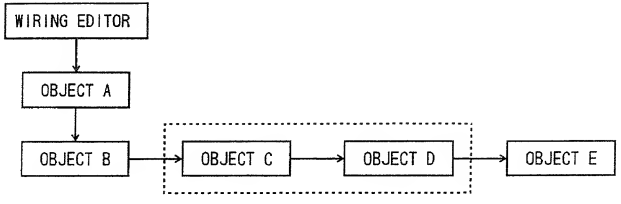

Fig.83

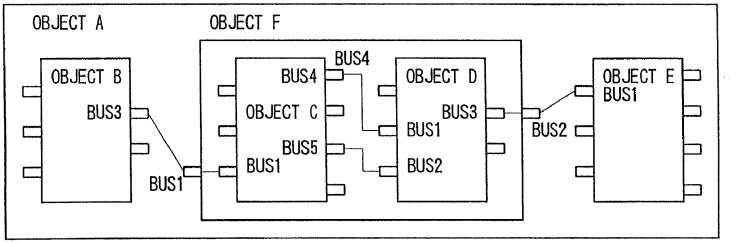

Fig. 84

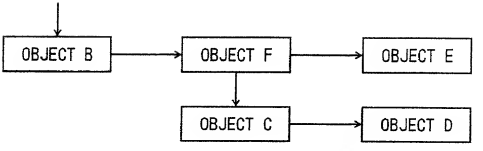

Fig.85

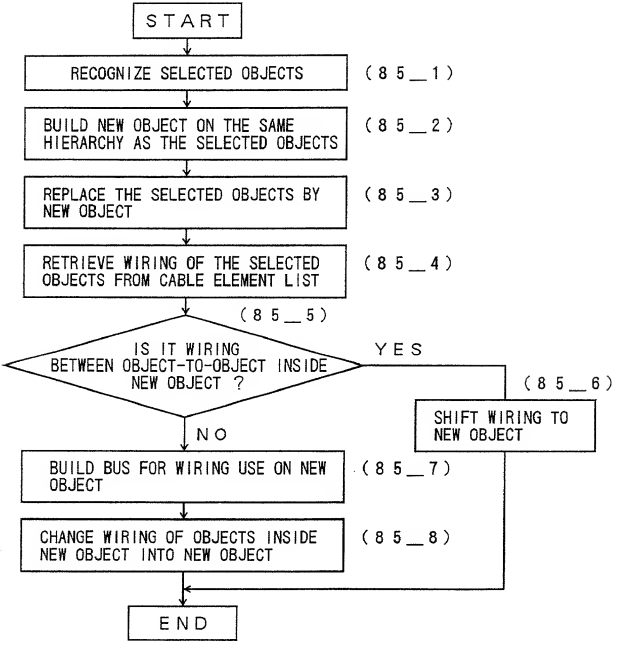

Fig.86

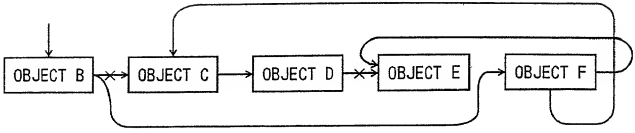

Fig.87

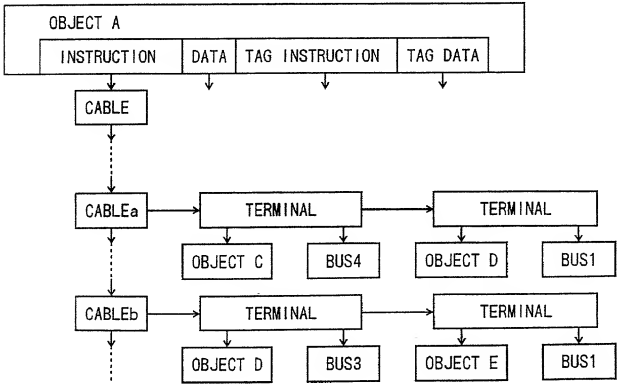

Fig. 88

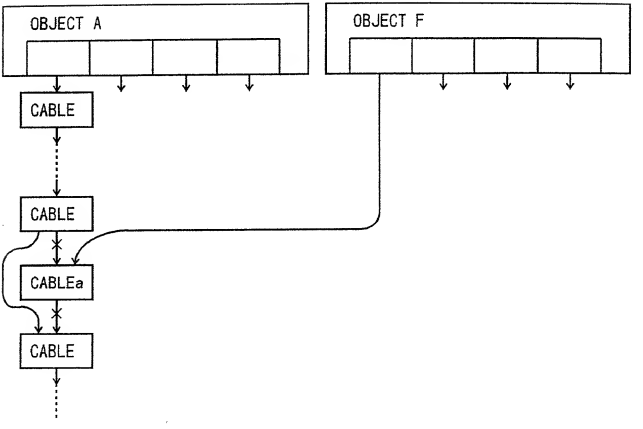

Fig. 89

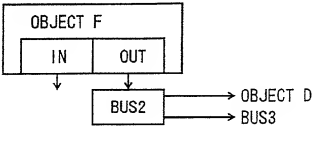

Fig.90

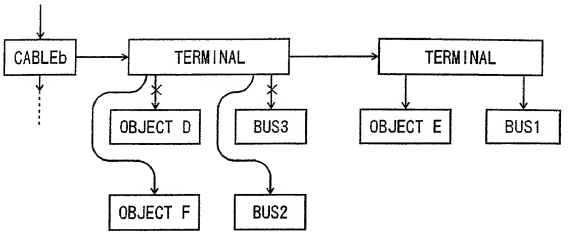

Fig.91

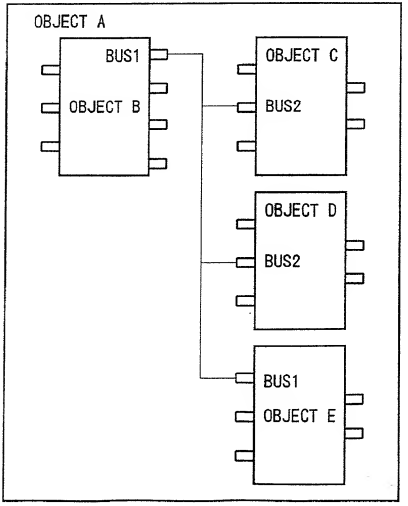

Fig. 92

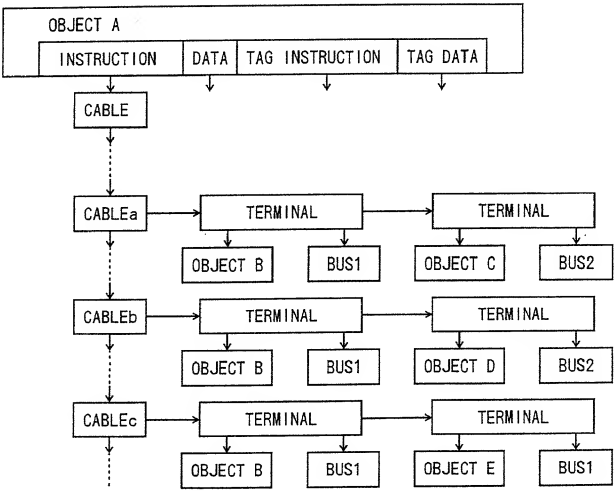
OBJECT A
INSTRUCTION
DATA
TAG INSTRUCTION
TAG DATA
CABLE
CABLEa
TERMINAL
TERMINAL
OBJECT B
BUS1
OBJECT C
BUS2
CABLEb
TERMINAL
TERMINAL
OBJECT B
BUS1
OBJECT D
BUS2
CABLEc
TERMINAL
TERMINAL
OBJECT B
BUS1
OBJECT E
BUS1

Fig. 93

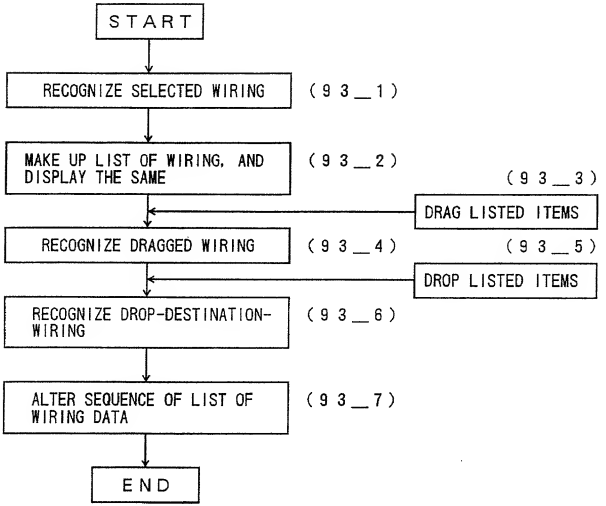

Fig. 94

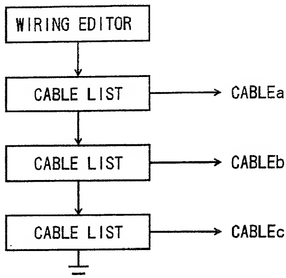

Fig. 95

OBJECT B : BUS1	OBJECT C : BUS2
OBJECT B : BUS1	OBJECT D : BUS2
OBJECT B : BUS1	OBJECT E : BUS1

Fig. 96

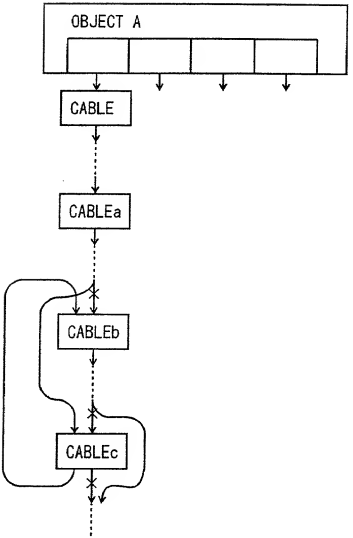

Fig.97

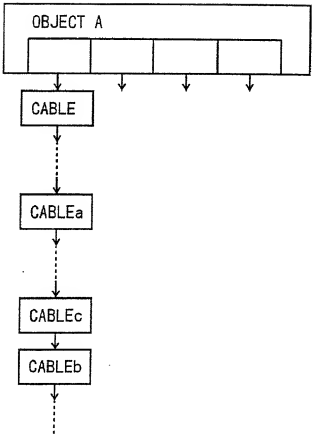
OBJECT A
CABLE
CABLEa
CABLEc
CABLEb

Fig.98

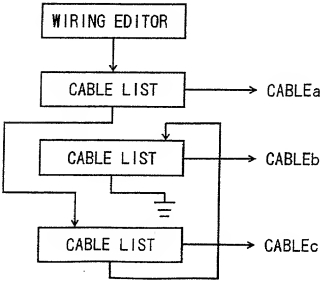
WIRING EDITOR
CABLE LIST
CABLEa
CABLE LIST
CABLEb
CABLE LIST
CABLEc

Fig.99

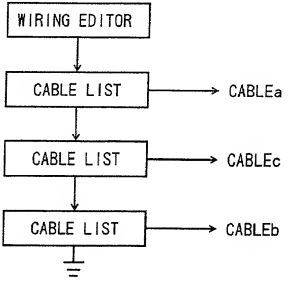

Fig.100

OBJECT B : BUS1	OBJECT C : BUS2
OBJECT B : BUS1	OBJECT E : BUS1
OBJECT B : BUS1	OBJECT D : BUS2

Fig.101

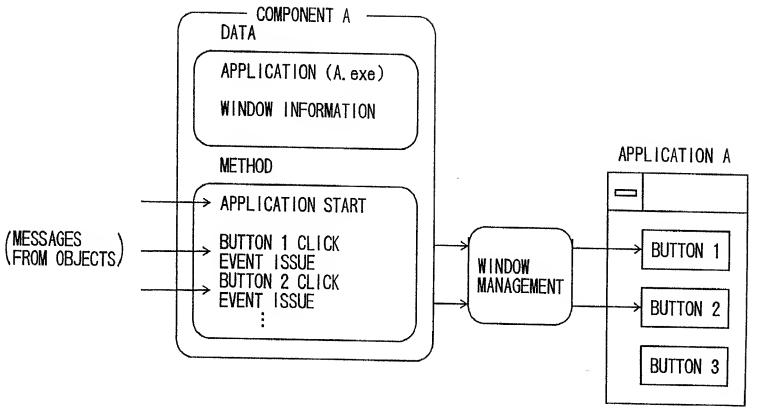

Fig.102

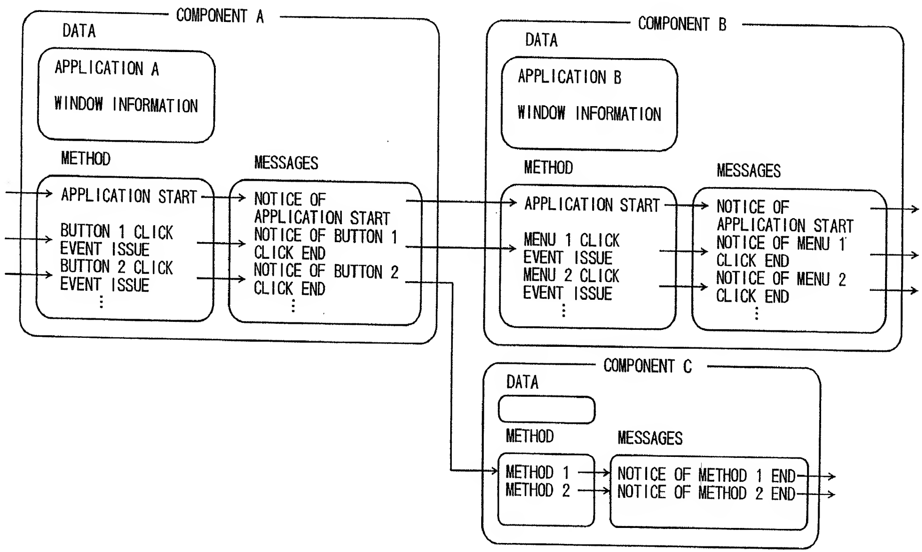

Fig.103

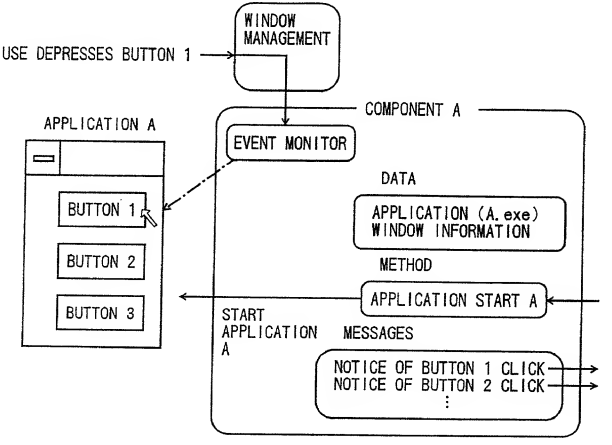

Fig.104

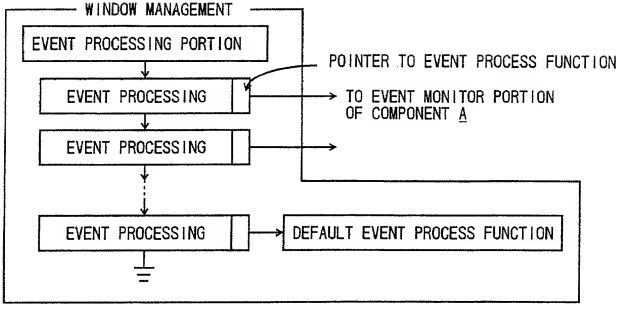

Fig.105

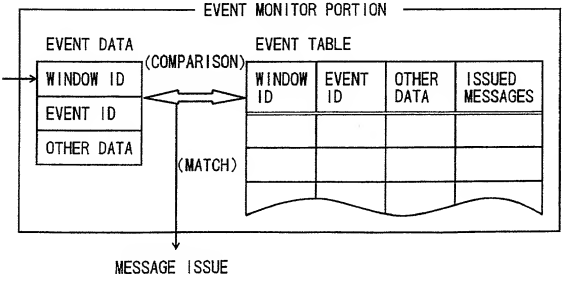

Fig.106

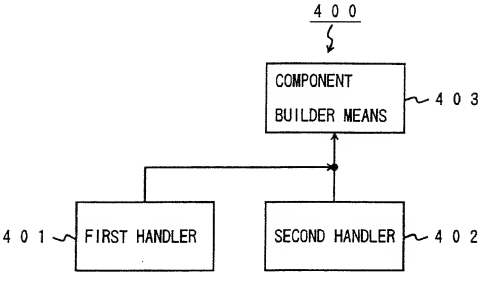

Fig.107

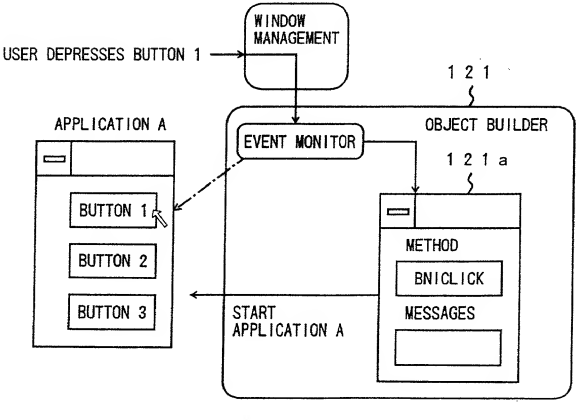

Fig.108

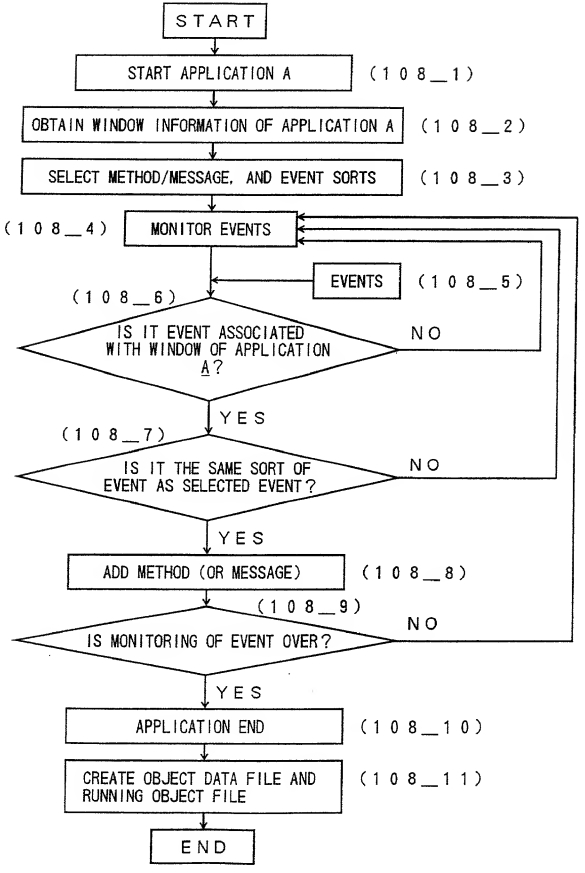

Fig.109

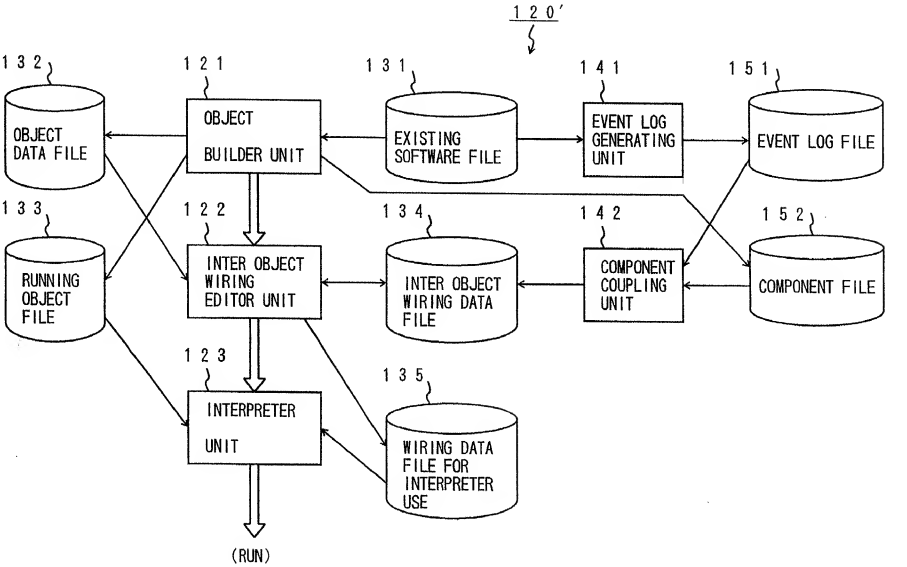

Fig.110

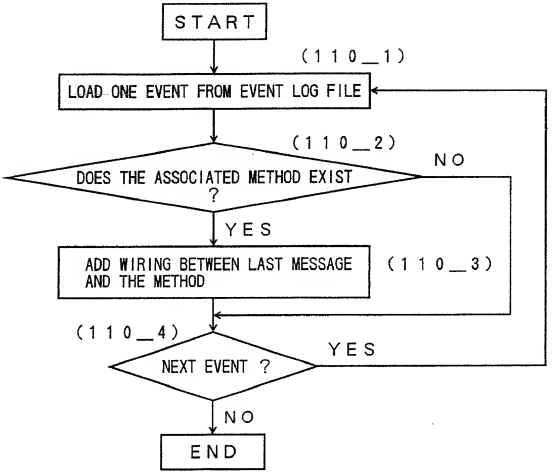

Fig.111

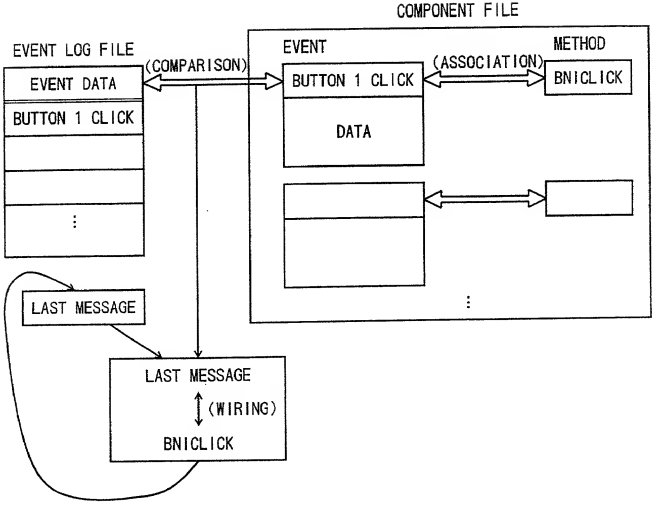

Fig.112

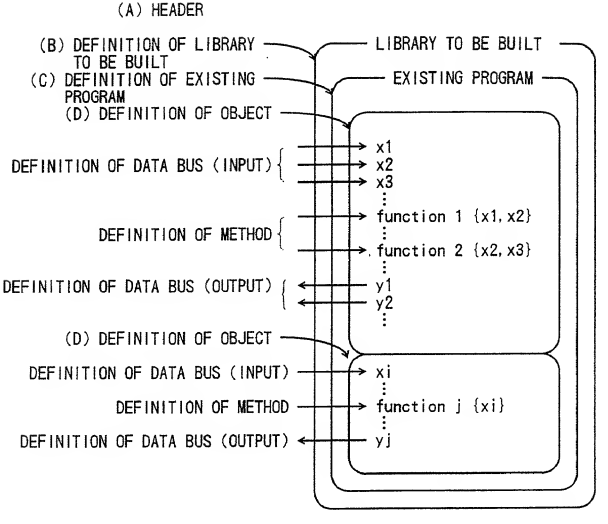

Fig.113

	ITEMS	KEYWORDS	REMARKS
(A)	PROJECT	LSIBuilderProject	
	PROJECT NAME	LSIBuilderProjectName	
	PATH OF COMPILER SYSTEM	MSVCRoot	
	PATH OF FIRSTSIGHT SYSTEM	CoreRoot	
	PATH OF USER AREA	UserRoot	
(B)	DEFINITION OF ARCHIVES	Archives	
	NAME OF ARCHIVES	ArchivesName	
	PATH OF LIB	LibPath	
	PATH OF DLL	DllPath	
(C)	NAME OF LIBRARY TO BE BUILT	LibName	
	COMPILE MODE	Debug	
	DEFINITION OF #define AND typedef	Header	
(D)	DEFINITION OF LSI	LSI	
	NAME OF LSI	LSIName	
	COLOR OF LSI	Color	TREE COLORS OF RGB (0-255)
	DATA BUS	DataBus	
	NAME OF DATA CORRECTION PROCESS	ProcessName	
	NAME OF DATA BUS	Name	
	TYPE OF VARIABLES	VariableType	CODE OF FUNCTION
	DATA CORRECTION PROCESS	Process	
	DIRECT DEVELOPMENT INTO DefineConnector	Inline	
	DISTINCTION BETWEEN INPUT AND OUTPUT	IO	input OR output
	COLOR OF BUS	Color	
	INSTRUCTION	InstBus	
	NAME OF INSTRUCTION BUS	Name	
	FUNCTION NAME OF ENTRY POINT	ProcessName	
	MEANING OF RETURN VALUE	ReturnValue	zero OR nonzero OR NUMERAL
	INSTRUCTION PROCESS	Process	CODE OF FUNCTION
	Cmd ?	Cmd	yes/no
	DIRECT DEVELOPMENT INTO Cmd OR Command	Inline	
	COLOR OF BUS	Colo	
	GLOBAL VARIABLES (GLOBAL VARIABLES INSIDE LSI)	Variables	
	DEFINITION #define AND typedef	Header	
	INITIALIZATION PROCESS	Initialize	CODE OF FUNCTION
	CONSTRUCTOR	Constructor	CODE OF FUNCTION
	DESTRUCTOR	Destructor	CODE OF FUNCTION

Fig.114